

APPLICANT(S): **HASSON, Jaime**  
SERIAL NO.: **10/026,662**  
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### **REMARKS**

The present Amendment is intended to be fully responsive to all points of objection and/or rejection raised by the Examiner and is believed to place the application in condition for allowance. Favorable reconsideration and allowance of the application are respectfully requested.

Applicant asserts that the present invention is new, non-obvious and useful. Prompt consideration and allowance of the claims are respectfully requested.

### **Status of Claims**

Claims 1-24 are pending in the application.

Claims 1, 3, 5, 10, 15, 20, 22 and 23 have been amended.

### **Allowable Subject Matter**

Applicant would like to thank the Examiner for allowing claims 3, 4, 15-19, 21 and 24. Applicant would also like to thank the Examiner for indicating in the Office Action that claims 20, 22 and 23 would be allowable if rewritten in independent form including all the limitations of the base claim and any intervening claims.

Claims 3 and 15 were amended for clarification to recite "said N non-uniform cells covering a complex plane". Applicant respectfully asserts that this clarifying amendment does not affect the patentability of claims 3 and 15 in view of the cited prior art references and any combinations thereof. Therefore, Applicant respectfully asserts that amended claims 3 and 15 are in condition for allowance.

Claims 1, 5, and 10 have been amended to recite "a non-uniform polar quantizer to produce, based on an integrated signal, a quantized output representing a symbol selected from a set of N symbols, the selected symbol corresponding to a cell of a set of N non-uniform cells covering a complex plane in a non-overlapping manner, wherein said cell corresponds to a phase of said integrated signal". It is respectfully asserted that the amended language of claims 1, 5 and 10 roughly corresponds to the allowable subject matter identified

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by the Examiner in claims 3 and 15. Therefore Applicant respectfully asserts that amended claims 1, 5, and 10 are in condition for allowance.

Claims 20, 22, and 23 depend directly from amended base claims 1, 5, and 10, respectively, and include all the features of these amended independent claims as well as additional distinguishing features. Therefore Applicant respectfully asserts that claims 20, 22, and 23 are in condition for allowance.

## **CLAIM REJECTIONS**

### **35 U.S.C. § 103 Rejections**

In the Office Action, the Examiner rejected claims 1 and 2 under 35 U.S.C. § 103(a), as being unpatentable over Underbrink et al. (US 6,754,287) in view of Steensgard-Madsen (US 6,271,782).

The Examiner rejected claims 5, 9, 10 and 14 under 35 U.S.C. § 103(a), as being unpatentable over Underbrink et al. in view of Steensgard-Madsen as applied to claim 1 and further in view of Dent et al. (US 6,181,920).

The Examiner rejected claims 6, 7, 11 and 12 under 35 U.S.C. § 103(a), as being unpatentable over Underbrink et al., Steensgard-Madsen, and Dent et al. (US 6,181,920) as applied to claim 5 and further in view of McCune (US 6,636,112).

The Examiner rejected claims 8 and 13 under 35 U.S.C. § 103(a), as being unpatentable over Underbrink et al., Steensgard-Madsen, and Dent et al. as applied to claim 6 above and further in view of Oursler (US 4,063,199).

As discussed above, amended claims 1, 5, and 10, are now believed to be in condition for allowance per the Examiner's analysis of the claims vis-a-vis the cited prior art references and any combinations thereof. Therefore, Applicant respectfully asserts that the various rejections of these claims and their dependents under 35 U.S.C. § 103(a) are now moot, and should thus be withdrawn, as detailed below.

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Claim 2 depends directly from amended claim 1 and incorporates all the elements of this claim. Therefore, it is respectfully submitted that the patentability of claim 2 follows directly from the patentability of independent claim 1.

Accordingly, Applicant respectfully requests that the Examiner withdraw the rejection of claims 1 and 2.

Claims 6-9 depend, directly or indirectly, from amended claim 5 and incorporate all the elements of this claim. Therefore, it is respectfully submitted that the patentability of claims 6-9 follows directly from the patentability of independent claim 1.

Accordingly, Applicant respectfully requests that the Examiner withdraw the rejection of claims 6-9.

Claims 11-14 depend, directly or indirectly, from amended claim 10 and incorporate all the elements of this claim. Therefore, it is respectfully submitted that the patentability of claims 11-14 follows directly from the patentability of independent claim 10.

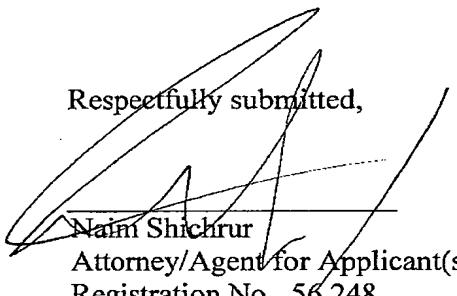
Accordingly, Applicant respectfully requests that the Examiner withdraw the rejection of claims 11-14.

In view of the foregoing amendments and remarks, the pending claims are deemed to be allowable. Their favorable reconsideration and allowance are respectfully requested.

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Should the Examiner have any question or comment as to the form, content or entry of this Amendment, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone the undersigned counsel.

Please charge any fees associated with this paper to deposit account No. 50-3355.

  
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